

**SYSTEM FOR OPERATIONAL COEXISTENCE OF
WIRELESS COMMUNICATION TECHNOLOGIES**

ABSTRACT

The present invention provides a system for providing simultaneous operation of
5 disparate wireless telecommunication technologies within a single device (102). The device
comprises a plurality of antennas (112, 114). The system provides an antenna switching
function (116) communicatively coupled to the plurality of antennas. A first wireless
telecommunications function (104) is communicatively coupled to the antenna switching
function, as is a second wireless telecommunications function (106). The system provides an
10 arbitration function (118) communicatively coupled to the antenna switching function and
the first and second wireless telecommunications functions. A defined prioritization scheme
is provided. The arbitration function operates to control access to the plurality of antennas by
the first and second wireless telecommunications functions according to the defined
prioritization scheme.